!	MAV	3			T			·	Complete if Knor	vn			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Ar	Application Number					10/696,708		
					<u> </u>	Filing Date					30 October 2003		
					-	First Named Inventor					Mark T. KEATING et al.		
						Group Art Unit					1636		
						Examiner Name					1000		
									122	2323-164			
Sheet	1		of	4				ocket Number		232	:3-104		
	γ	Τ	.			PATI	ENT	DOCUMENTS					
Examiner Initials*	Cite No.1	U.S. Patent Document Number Kind Code ² (if known)				Name of Patentee or Applicant of Cited Document			Date of Publication of Cited Document MM-DD-YYYY				
CR M		5,599,673						Keating et al.			02-04-1997		
						_							
							T	· · · · · · · · · · · · · · · · · · ·					
					\neg				· · · · · · · · · · · · · · · · · · ·				
							1		-		. ,		
							T		•				
					一		T					•	
		 		- 			T				· .	_	
		 			一		T	· · · · · · · · · · · · · · · · · · ·					
		1		FC)REIC	SN P	ATF	NT DOCUMEN	TS				
	<u> </u>	T	Foreign	Patent Doc			716	itt boodineit				Г	
Examiner Initials*	Cite No.1	Office ³ Code	Office ³ Number ⁴		4 K	Kind ⁵ (if known)		Name of Patentee of Applicant of Cited Document			Date of Publication of Cited Document MM-DD-YYYY 1		
						\Box							

			 			十	_		· · · · · · · · · · · · · · · · ·			┢	
						十				\top			
						_			· · · · · · · · · · · · · · · · · · ·	\dashv		<u> </u>	
		 	+			\dashv			<u> </u>	+		┢	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that Issued the document, by the two-letter code. ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the senal number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

				(Complete if Kn	own					
			Application N	umber	10/696,708						
• • • • •		ON DISCLOSURE	I LIMING Date	Filing Date 30 October 2003							
STA	ATEMEN	T BY APPLICANT		First Named Inventor Mark T. KEATING et al.							
			Group Art Un	Group Art Unit 1636							
	á		Examiner Na	Examiner Name							
Shee	2	of 4	Attorney Doc	ket Number	2323-164						
 		NON	PATENT LITERATU	IRE DOCUME	NTS		T				
Examine Initials	_	Include name of Item (book, magaz	ine, journal, serial, symp	ETTERS), title of osium, catalog, et and/or country wh	c.), date, page(s)	appropriate), title of the , volume-Issue number(s),	T ²				
ca AB			Ackerman, M.J., M.D., Ph.D., "The Long QT Syndrome: Ion Channel Diseases of the Heart", Mayo Clin. Proc. 1998; 73:250-269								
1	AC	Akimoto, K., et al., 'Syndrome Family',				Japanese Long QT S186					
	AD		Babij, P., et al., "Inhibition of Cardiac Delayed Rectifier K* Current by Overexpression of the Long-QT Syndrome HERG G628S Mutation in Transgenic Mice", Circ. Res. 1998; 83(6):668-678								
	AE		Benson, D., et al., "Missense Mutation in the Pore Region of HERG Causes Familial Long QT Syndrome", Circulation May 15, 1996; 93(10):1791-1795								
	AF	Curran, M., et al., "A Molecular Basis for Cardiac Arrhythmia: HERG Mutations Cause Long QT Syndrome", Cell March 10, 1995; 80:795-803									
	AG	Dausse, E., et al., ". Syndrome", J. Mol.			with Notched T Waves in Long QT						
	AH	Fung, D., et al., "Rs 1998; 53:504	and Mael intragenic RFLPs in the human HERG gene", Clin. Genet.								
	Al	Itoh, T., et al., "Genomic organization and mutational analysis of <i>HERG</i> , a gene responsible for familial long QT syndrome", <i>Hum. Genet.</i> 1998; 103:290-294									
	ВА	Janse, M.J. and Wilde, A.A.M., "Molecular Mechanisms of Arrhythmias", Rev. Port. Cardiol. 1998; 17(Supl. II):41-46									
	ВВ	Jiang, C., et al., "Two long QT syndrome loci map to chromosomes 3 and 7 with evidence for further heterogeneity", Nature Genetics October 1994; 8:141-147									
ВС		Keating, M.T., MD, "Genetic Approaches to Cardiovascular Disease Supravalvular Aortic Stenosis, Williams Syndrome, and Long-QT Syndrome", Circulation 1995; 92(1):142-147									
	BD		Keating, , M.T., "The Long QT Syndrome A Review of Recent Molecular Genetic and Physiologic Discoveries", <i>Medicine</i> 1996; 75(1):1-5								
	BE	Kupershmidt, S., et al., "A K* Channel Splice Variant Common in Human Heart Lacks a Cterminal Domain Required for Expression of Rapidly Activating Delayed Rectifier Current", Biol. Chem. Oct. 16, 1998 273(42):27231-27235									
V	/ BF	Lazzara, R., "Mecha syndromes", Arch.				rired long QT					
Examine Signatur		The second			Date Considered	4/3/06					

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Unique citation designation number. ²Applicant is to place a check mark here if English language Translation is attached.

					Complete if Known					
INFORMATION DISCLOSURE					Application Number	10/696,708				
					Filing Date	2003				
STATEMENT BY APPLICANT				ANI	First Named Inventor Mark T. KEATING et al.					
					Group Art Unit 1636					
	•				Examiner Name					
Sheet	et 3 of 4			4	Attorney Docket Number	2323-164	3-164			
-				NON PA	TENT LITERATURE DOCU	MENTS				
			thor (in CAPITAL LETTERS), title ournal, serial, symposium, catalog, epublisher, city and/or country w	ic.), date, page(s		T²				
					and Sex-Related Difference Syndrome", Circulation Jun					
BI London, B., et al., "Two Isoforms of the Mouse Ether-a-Form Channels With Properties Similar to the Rapidly A Delayed Rectifier K* Current", Circ. Res. Nov. 1997; 81(Activating Co				
	вл		McDonald, T., et al., "A minK-HERG complex regulates the cardiac potassium current I_{Kr} ", Nature July 17, 1997; 388:289-292							
	ВК		Roden, D.M., et al., "Multiple Mechanisms in the Long-QT Syndrome", Circulation 1996; 94(8):1996-2012							
	CA		Roden, D.M., et al., "Recent Advances in Understanding the Molecular Mechanisms of the Long QT Syndrome", <i>J. Cardiovasc. Electrophysiol.</i> Nov. 1995; 6(11)1023-1031							
	СВ		Sanguinetti, M.C., et al., "A Mechanistic Link between an Inherited and an Acquired Cardiac Arrhythmia: <i>HERG</i> Encodes the I _{kr} Potassium Channel", <i>Cell</i> April 21, 1995; 81:299-307							
	СС	Satler, C., et al., "Multiple different missense mutations in the pore region of HERG in patients with long QT syndrome", Hum. Genet. 1998; 102:265-272								
	CD	CD Satler, C., et al., "Novel Missense Mutation in the Cyclic Nucleotide-Binding Domain of Causes Long QT Syndrome", <i>American Journal of Medical Genetics</i> 1996; 65:27-35								
CE Schönherr, R., et al., "Molecular determinants for activation and inactivation of human inward rectifier potassium channel", <i>Journal of Physiology</i> 1996; 493.3										
	CF	Schulze-Bahr, E., et al., "Autosomal recessive long-QT syndrome (Jervell Lange-Nielsen syndrome) is genetically heterogeneous", <i>Hum. Genet.</i> 1997; 100:573-576								
	CG	Schwartz, P., et al., "Long QT Syndrome Patients With Mutations of the SCN5A and HERG Genes Have Differential Responses to Na* Channel Blockade and to Increases in Heart Rate", Circulation Dec. 15, 1995; 92(12):3381-3386								
	СН	Splawski, I., et al., "Genomic Structure of Three Long QT Syndrome Genes: KVLQT1, HERG and KCNE1", Genomics 1998; 51:86-97								
	CI	Tanaka, T., et al., "Four Novel KVLQT1 and Four Novel HERG Mutations in Familial Long-QT Syndrome", Circulation Feb. 4, 1997; 95(3):565-567								
V	C1	Trude Chan	eau, M., o nel Fami	et al., "HER ly", Science	G, a Human Inward Rectifie July 7, 1995; 269:92-95, 10	r in the Voltage 187	e-Gated Potassium			
Examiner				2		Date	4/3/06			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Unique citation designation number. *Applicant is to place a check mark here if English language Translation is attached.

							Complete if Known				
						Application Number	10/696,708				
INFORMATION DISCLOSURE					SURE	Filing Date	30 October 2003				
STATEMENT BY APPLICANT				APPLIC	ANT	First Named Inventor	Mark T. KEATING et al.				
						Group Art Unit	1636				
						Examiner Name					
Sh/	Sheet 4 of 4				4						
Site	et	14		Oi		Attorney Docket Number					
	· · · · ·	T:	γ			TENT LITERATURE DOCUM	·				
							of the article (when appropriate), title of the stc.), date, page(s), volume-issue number(s), there published	T2			
C	R	СК	Vince Faint	Vincent, G.M. MD, "The Molecular Genetics of The Long QT Syndrome: Genes Causing Fainting and Sudden Death", <i>Annu. Rev. Med.</i> 1998; 49:263-74							
		CL		van den Berg, M., et al., "The long QT syndrome: a novel missense mutation in the S6 region of the KVLQT1 gene", <i>Hum. Genet.</i> 1997; 100:356-361							
		DA	Wan	g, Q., et a <i>Med</i> . 199	al., "Genetic 98; 30:58-6	cs, molecular mechanisms ar 5	nd management of long QT syndrome",				
		DB	Wang Med.	Wang, Q., et al., "The molecular basis of long QT syndrome and prospects for therapy", Mol. Med. Today Sept. 1998; 4(9):382-388							
		DC		Wang, Q., et al., "Molecular genetics of long QT syndrome from genes to patients", Curr. Opin. Cardiol. 1997; 12:310-320							
		DE		Warmke, J.W. et al., "A family of potassium channel genes related to eag in <i>Drosophila</i> and mammals" <i>Proc. Natl. Acad. Sci. USA</i> 91:3439-3442 (1994)							
		DF		Wattanasirichaigoon, D. and Beggs, A.H., "Molecular genetics of long-QT syndrome", Curr. Opin. Pediatr. 1998; 10:628-634							
		DG	Zarel Synd	Zareba, W., et al., "Influence of the Genotype on the Clinical Course of the Long-QT Syndrome", N. Eng. J. Med. Oct. 1998; 339(14):960-965							
		DH		Zhou, Z., et al., "HERG Channel Dysfunction in Human Long QT Syndrome", J. Biol. Chem. Aug. 14, 1998; 273(33):21061-21066							
		DI	oocyt	Zou, A., et al., "A mutation in the pore region of HERG K* channels expressed in <i>Xenopus</i> oocytes reduces rectification by shifting the voltage dependence of inactivation", <i>Journal of Physiology</i> , 1998; 509.1:129-137							
DJ		DJ	OMIM ENTRY 152427 - LONG QT SYNDROME, TYPE 2; LQT2 7pp.								
Examir Signati				/			Date Considered 4//3/36				

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Unique citation designation number. *Applicant is to place a check mark here if English language Translation is attached.